



GAU 3711
#4

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF : Michael J. Sullivan
FOR : IMPROVED MULTI-LAYER GOLF BALL
SERIAL NO. : 09/470,196
FILED : December 21, 1999
ART UNIT : 3711
EXAMINER : M. Graham
ATTORNEY DOCKET NO. : SLD 2 035-3-3-1-1
P-3724-2-F1-C1

Cleveland, Ohio 44114
March 21, 2000

I hereby certify that this correspondence is being deposited
with the United States Postal Service as first class mail in
an envelope addressed to Assistant Commissioner for
Patents, Washington, DC 20231, on 3/27/00
Mark L. Gosselin
(SIGNATURE)

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Applicants submit herewith patents, publications or other information of which they are aware, which they believe may be material to the examination of the above-identified application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. 1.56.

This Information Disclosure Statement is not intended to constitute an admission that any patent, publication or other information referred to herein or submitted herewith is "prior art" for this invention unless specifically designated as such.

In accordance with 37 C.F.R. 1.97(g) and (h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. 1.56(b) exists.

The following list of art includes all patents, publications, or other information previously cited by or submitted to the Office in one or more prior applications from which the present application claims priority. These one or more prior applications are identified in the papers accompanying the filing of this

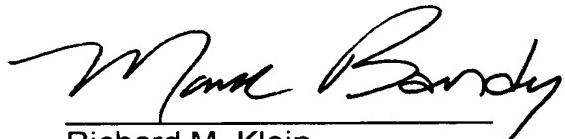
RECEIVED
MAIL ROOM
APR 7 2000

application. In accordance with §609 MPEP, it is not necessary to submit copies of the art listed below.

It is respectfully requested that the attached documents be considered and officially cited in examination of this application.

Respectfully submitted,

FAY, SHARPE, FAGAN,
MINNICH & McKEE, LLP



Richard M. Klein
Reg. No. 33,000
Mark E. Bandy
Reg. No. 35,788
1100 Superior Avenue
Suite 700
Cleveland, Ohio 44114-2518
(216) 861-5582

C:\DATA\SPALDING\20353311.IDS



Subst. Form PTO-1449 APPLICANT'S(S') INFORMATION DISCLOSURE STATEMENT Page 1 of 10		Atty. Docket No.: SLD 2 035-3-3-1-1 P-3724-2-F1-C1	Serial No.: 09/470,196				
		Applicants: Sullivan					
		Filing Date: December 21, 1999	Group: 3711				
U.S. PATENT DOCUMENTS							
Initial*		Document No.	Date	Name	Class	Subcl.	Filing Date
		2,741,480	04/1953	Smith			
		2,973,800	09/1958	Muccino			
		3,053,539	06/1959	Piechowski			
		3,264,272	08/1966	Rees			
		3,313,545	09/1963	Bartsch			
		3,373,123	03/1968	Brice			
		3,384,612	05/1968	Brandt et al.			
		3,395,109	07/1968	Molitor et al.			
		3,458,205	04/1965	Smith et al.			
		3,502,338	03/1970	Cox			
		3,534,965	10/1970	Harrison et al.			
		3,572,721	03/1971	Harrison et al.			
		3,883,145	05/1975	Cox et al.			
		3,979,126	09/1976	Dusbiber			
		3,989,568	11/1976	Isaac			
FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Subcl.	Translation?
		494,031	10/1938	GB			
		2,245,580	01/1992	GB			
		2,248,067	03/1992	GB			
		2,264,302	11/1992	GB			
		2,291,811	1996	GB			
OTHER ART							
		A General Reference Manual, "The Chemistry of Polyurethane Coatings," Mobay Corporation, 1988 (1988)					
		Product Announcement, "New Polyurea System Offering Rapid Mold Times and Excellent Thermal Stability for Automotive Fascias Is Introduced by Mobay," PRNewswire, March 1, 1998					
		Cytec Industries, Inc., "TMXDI®(META) Aliphatic Isocyanates," brochure, pp. 2-11, 9/94					
		Bayer Corporation, "Engineering Polymers RIM and Part Mold Design," brochure, pp. 1-85, 5/95					
Examiner:				Date Considered:			
* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if in conformance and not considered. Include copy of this form with next communication to applicant.							

TO 3700 MAIL ROOM APR -5 RECEIVED
 210



Subst. Form PTO-1449

APPLICANT'S(S') INFORMATION
DISCLOSURE STATEMENT

Page 2 of 10

Atty. Docket No.: SLD 2 035-3-3-1-1
P-3724-2-F1-C1

Serial No.: 09/470,196

Applicants: Sullivan

Filing Date: December 21, 1999

Group: 3711

U.S. PATENT DOCUMENTS

Initial*	Document No.	Date	Name	Class	Subcl.	Filing Date
	4,076,255	02/1978	Moore et al.			
	4,085,937	04/1978	Schenk			
	4,123,061	10/1978	Dusbiber			
	4,190,711	02/1980	Zdrahalo et al.			
	4,218,543	08/1980	Weber et al.			
	4,248,432	02/1981	Hewitt et al.			
	4,272,079	06/1981	Nakade et al.			
	4,274,637	06/1981	Molitor			
	4,337,946	07/1982	Saito et al.			
	4,431,193	02/1984	Nesbitt			
	4,442,282	04/1984	Kolycheck			
	4,570,937	02/1986	Yamada			
	4,582,887	04/1986	Dominguez et al.			
	4,590,219	05/1986	Nissen et al.			
	4,607,090	08/1986	Dominguez			
	4,650,193	03/1987	Molitor et al.			

TO 3700 MAIL ROOM
APR - 5 2000
RECEIVED

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Subcl.	Translation?
	2,291,812	1996	GB			
	2,137,841	1994	Canada			
	0,589,647	1993	EP Patent Application			
	0,630,665	1994	EP Patent Application			
	0,637,459	1994	EP Patent Application			

OTHER ART

	Bayer Corporation, "Engineering Polymers Properties Guide Thermoplastics and Polyurethanes," brochure, pp. 2-7, 28-29
	A Properties Guide, "Engineering Polymers Thermoplastics and Thermosets," Miles Inc., 1-23 (1994)
	Polyurethane Handbook, "Chemistry-Raw Materials-Processing Applications-Proeprties," edited by Oertel et al., Hanser/Gardner Publications, Inc., 101,102 (1994)

Examiner:

Date Considered:

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if in conformance and not considered. Include copy of this form with next communication to applicant.



Subst. Form PTO-1449
APPLICANT'S(S') INFORMATION
DISCLOSURE STATEMENT
Page 3 of 10

Atty. Docket No.: SLD 2 035-3-3-1-1
P-3724-2-F1-C1

Serial No.: 09/470,196

Applicants: Sullivan

Filing Date: December 21, 1999

Group: 3711

U.S. PATENT DOCUMENTS

Initial*	Document No.	Date	Name	Class	Subcl.	Filing Date
	4,674,751	06/1987	Molitor et al.			
	4,679,795	07/1987	Melvin et al.			
	4,688,801	08/1987	Reiter			
	4,690,981	09/1987	Statz			
	4,695,055	9/1987	Newcomb et al.			
	4,714,253	12/1987	Nakahara et al.			
	4,762,322	08/1988	Molitor et al.			
	4,798,386	01/1989	Berard			
	4,848,770	07/1989	Shama			
	4,852,884	08/1989	Sullivan			
	4,858,923	08/1989	Gobush et al.			
	4,858,924	08/1989	Saito et al.			
	4,878,674	11/1989	Newcomb et al.			
	4,884,814	12/1989	Sullivan			
	4,911,451	03/1990	Sullivan et al.			
	4,919,434	04/1990	Saito			

RECEIVED
APR 5 2000
TE 3700 MAIL ROOM

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Subcl.	Translation?

OTHER ART

	Translated Claims for JP 1,795,357 publ. 1/19/93
	DuPont NUCREL 035 Resin, DuPont Company, Wilmington, DE 1989 (no date)
	ESCOR ACID TERPOLYMERS, EXXON Chemical Co.
	Translated Claims for JP 1,771,941 publ. 8/6/92

Examiner: _____ Date Considered: _____

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if in conformance and not considered. Include copy of this form with next communication to applicant.



Subst. Form PTO-1449

APPLICANT'S(S') INFORMATION
DISCLOSURE STATEMENT

Page 4 of 10

Atty. Docket No.: SLD 2 035-3-3-1-1
P-3724-2-F1-C1

Serial No.: 09/470,196

Applicants: Sullivan

Filing Date: December 21, 1999

Group: 3711

U.S. PATENT DOCUMENTS

Initial*	Document No.	Date	Name	Class	Subcl.	Filing Date
	4,957,297	09/1990	Newcomb et al.			
	4,979,746	12/1990	Gentiluomo			
	4,984,804	01/1991	Yamada et al.			
	4,986,545	01/1991	Sullivan			
	5,002,281	03/1991	Nakahara et al.			
	5,006,297	04/1991	Brown et al.			
	5,019,319	05/1991	Nakamura et al.			
	5,026,067	06/1991	Gentiluomo			
	5,035,425	07/1991	Edwards			
	5,045,591	09/1991	Meyer et al.			
	5,048,838	09/1991	Chikaraishi et al.			
	5,068,151	11/1991	Nakamura			
	5,072,944	12/1991	Nakahara et al.			
	5,096,201	03/1992	Egashira et al.			
	5,098,105	03/1992	Sullivan			
	5,104,126	04/1992	Gentiluomo			

RC 3100 MAIL ROOM
APR 15 2000
RECEIVED

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Subcl.	Translation?

OTHER ART

Examiner:

Date Considered:

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if in conformance and not considered. Include copy of this form with next communication to applicant.



Subst. Form PTO-1449
APPLICANT'S(S') INFORMATION
DISCLOSURE STATEMENT
Page 5 of 10

Atty. Docket No.: SLD 2 035-3-3-1-1
P-3724-2-F1-C1

Serial No.: 09/470,196

Applicants: Sullivan

Filing Date: December 21, 1999

Group: 3711

U.S. PATENT DOCUMENTS

Initial*	Document No.	Date	Name	Class	Subcl.	Filing Date
	5,120,791	06/1992	Sullivan			
	5,142,835	09/1992	Mrocca			
	5,150,906	09/1992	Molitor et al.			
	5,156,405	10/1992	Kitaoh et al.			
	5,184,828	02/1993	Kim et al.			
	5,187,013	02/1993	Sullivan			
	5,197,740	03/1993	Pocklington et al.			
	5,219,973	06/1993	Slack et al.			
	5,222,739	06/1993	Horiuchi et al.			
	5,244,969	09/1993	Yamada			
	5,253,871	10/1993	Viollaz			
	5,273,286	12/1993	Sun			
	5,273,287	12/1993	Molitor et al.			
	5,274,041	12/1993	Yamada			
	5,281,651	01/1994	Arjunan et al.			
	5,300,334	04/1994	Niederst et al.			

RECEIVED
APR - 5 2000
U.S. STOKE MAIL ROOM

FOREIGN PATENT DOCUMENTS

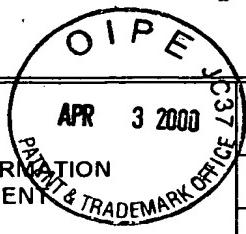
	Document No.	Date	Country	Class	Subcl.	Translation?

OTHER ART

Examiner:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if in conformance and not considered. Include copy of this form with next communication to applicant.



Subst. Form PTO-1449

APR 3 2000

Atty. Docket No.: SLD 2 035-3-3-1-1
P-3724-2-F1-C1

Serial No.: 09/470,196

APPLICANT(S)' INFORMATION
DISCLOSURE STATEMENT

Page 6 of 10

Applicants: Sullivan

Filing Date: December 21, 1999

Group: 3711

U.S. PATENT DOCUMENTS

Initial*	Document No.	Date	Name	Class	Subcl.	Filing Date
	5,304,608	04/1994	Yabuki et al.			
	5,306,760	04/1994	Sullivan			
	5,312,857	05/1994	Sullivan			
	5,314,187	05/1994	Proudfit			
	5,324,783	06/1994	Sullivan			
	5,330,837	07/1994	Sullivan			
	5,334,673	08/1994	Wu			
	5,338,610	08/1994	Sullivan			
	5,368,304	11/1994	Sullivan et al.			
	5,368,806	11/1994	Harasin et al.			
	5,387,750	02/1995	Chiang			
	5,403,010	04/1995	Yabuki et al.			
	5,439,227	08/1995	Egashira et al.			
	5,480,155	01/1996	Molitor et al.			
	5,482,285	01/1996	Yabuki et al.			
	5,484,870	01/1996	Wu			

TC 3100 MAIL ROOM
APR - 5 2000
RECEIVED

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Subcl.	Translation?

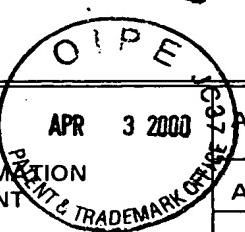
OTHER ART

Examiner:

Date Considered:

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if in conformance and not considered. Include copy of this form with next communication to applicant.

Subst. Form PTO-1449	APR 3 2000	Atty. Docket No.: SLD 2 035-3-3-1-1 P-3724-2-F1-C1	Serial No.: 09/470,196
APPLICANT'S(S') INFORMATION DISCLOSURE STATEMENT		Applicants: Sullivan	
Page 7 of 10		Filing Date: December 21, 1999	Group: 3711



U.S. PATENT DOCUMENTS

Initial*	Document No.	Date	Name	Class	Subcl.	Filing Date
	5,490,673	02/1996	Hiraoka			
	5,490,674	02/1996	Hamada et al.			
	5,492,972	02/1996	Stefani			
	5,553,852	09/1996	Higuchi et al.			
	5,586,950	12/1996	Endo			
	5,628,699	05/1997	Maruko et al.			
	5,668,239	09/1997	Nodelman et al.			
	5,674,137	10/1997	Maruko et al.			
	5,688,191	11/1997	Cavallaro et al.			
	5,692,974	12/1997	Wu et al.			
	5,730,665	03/1998	Shimosaka et al.			
	5,733,206	03/1998	Nesbitt et al.			
	5,733,207	03/1998	Sullivan et al.			
	5,733,428	03/1998	Calabria et al.			
	5,739,247	04/1998	Lesko et al.			
	5,739,253	04/1998	Nodelman et al.			

RECEIVED
APR - 5 2000
MAIL ROOM

FOREIGN PATENT DOCUMENTS

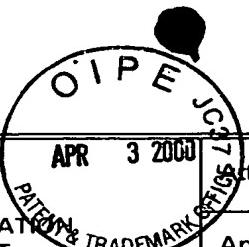
	Document No.	Date	Country	Class	Subcl.	Translation?

OTHER ART

Examiner:

Date Considered:

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if in conformance and not considered. Include copy of this form with next communication to applicant.



Subst. Form PTO-1449

APR 3 2000

APPLICANT'S(S') INFORMATION
DISCLOSURE STATEMENT

Page 8 of 10

Country. Docket No.: SLD 2 035-3-3-1-1
P-3724-2-F1-C1

Serial No.: 09/470,196

Applicants: Sullivan

Filing Date: December 21, 1999

Group: 3711

U.S. PATENT DOCUMENTS

Initial*	Document No.	Date	Name	Class	Subcl.	Filing Date
	5,750,580	05/1998	Mayer et al.			
	5,759,676	06/1998	Cavallaro et al.			
	5,779,561	07/1998	Sullivan et al.			
	5,779,562	07/1998	Melvin et al.			
	5,779,563	07/1998	Yamagishi et al.			
	5,783,293	07/1998	Lammi			
	5,792,008	08/1998	Kakiuchi et al.			
	5,797,808	08/1998	Hayashi et al.			
	5,800,284	09/1998	Sullivan et al.			
	5,803,831	09/1998	Sullivan et al.			
	5,810,678	09/1998	Cavallaro et al.			
	5,813,923	09/1998	Cavallaro et al.			
	5,816,937	10/1998	Shimosaka et al.			
	5,820,488	10/1998	Sullivan et al.			
	5,820,489	10/1998	Sullivan et al.			
	5,820,491	10/1998	Hatch et al.			

103700 MAIL ROOM
 APR 5 2000
 RECEIVED

FOREIGN PATENT DOCUMENTS

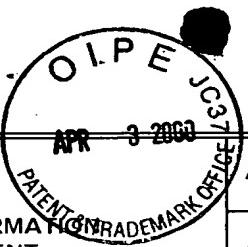
	Document No.	Date	Country	Class	Subcl.	Translation?

OTHER ART

Examiner:

Date Considered:

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if in conformance and not considered. Include copy of this form with next communication to applicant.



Subst. Form PTO-1449

Atty. Docket No.: SLD 2 035-3-3-1-1
P-3724-2-F1-C1

Serial No.: 09/470,196

APPLICANT(S)' INFORMATION
DISCLOSURE STATEMENT

Page 9 of 10

Applicants: Sullivan

Filing Date: December 21, 1999

Group: 3711

U.S. PATENT DOCUMENTS

Initial*	Document No.	Date	Name	Class	Subcl.	Filing Date
	5,827,167	10/1998	Dougan et al.			
	5,830,087	11/1998	Sullivan et al.			
	5,833,553	11/1998	Sullivan et al.			
	5,833,554	11/1998	Sullivan et al.			
	5,836,833	11/1998	Shimosaka et al.			
	5,849,168	12/1998	Lutz			
	5,856,388	01/1999	Harris et al.			
	5,863,264	01/1999	Yamagishi et al.			
	5,873,796	02/1999	Cavallaro et al.			
	5,885,172	03/1999	Hebert et al.			
	5,888,437	03/1999	Calabria et al.			
	5,891,973	04/1999	Sullivan et al.			
	5,897,884	04/1999	Calabria et al.			
	5,899,822	05/1999	Yamagishi et al.			
	5,902,192	05/1999	Kashiwagi et al.			
	5,908,358	06/1999	Wu			

TC 370 MAIL APR - 5 2000

RECEIVED

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Subcl.	Translation?

OTHER ART

Examiner:	Date Considered:
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if in conformance and not considered. Include copy of this form with next communication to applicant.	



Examiner:

Date Considered:

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if in conformance and not considered. Include copy of this form with next communication to applicant.